

SCOPE OF CLAIM FOR A PATENT

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1. A transparent synthetic resin laminate with photochromism property consisting essentially of two transparent synthetic resin layers and a photochromic layer formed by curing a mixture of a liquid polyurethane of a polyurethane prepolymer and a curing agent and a photochromic organic compound which is interposed between said two transparent synthetic resin layers.

2. The laminate according to claim 1, wherein said polyurethane prepolymer is a compound with an isocyanate group on both ends obtained from diisocyanate and polyol.

3. The laminate according to claim 1, wherein said polyurethane prepolymer is a compound derived from a prepolymer having a number average molecular weight of 500 to 5000 and a curing agent having a number average molecular weight of 500 to 5000.

4. The laminate according to claim 2, wherein said polyurethane prepolymer is a compound with an isocyanate group on both ends derived from diphenyl-

methane-4,4'-diisocyanate and polypropylene glycol.

5. The laminate according to claim 1, wherein
said curing agent is a compound with a hydroxyl group on
at least both ends obtained from diisocyanate and
polyol.

Sub B9 6. The laminate according to claim 5, wherein
said curing agent is a compound with a hydroxyl group on
at least both ends derived from tolylene diisocyanate
and polypropylene glycol.

Sub 10 7. The laminate according to claim 1, wherein
said two-liquid polyurethane contains tertiary hindered
amine light stabilizer.

8. The laminate according to claim 1, wherein
said two-liquid polyurethane contains a tertiary
hindered amine light stabilizer and an antioxidant
containing three or above of hindered phenol.

9. The laminate according to claim 1, wherein
said photochromic organic compound is a spiropyran
compound, a spiroxazine compound or a naphtopyran
compound.

10. The laminate according to claim 1, wherein each said two transparent synthetic resins are a polycarbonate resin, a polymethyl methacrylate resin or a polycarbonate resin and a polymethyl methacrylate resin.

11. The laminate according to claim 1, wherein said transparent resin is a sheet.

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12. A process for producing a transparent synthetic resin laminate with photochromism property which comprises:

coating a mixture of a two-liquid polyurethane of a polyurethane prepolymer and a curing agent, a photochromic organic compound and a solvent on one side of a transparent synthetic resin sheet,

then, removing the solvent from the mixture to a state not to contain substantially the solvent,

then, adhering another transparent synthetic resin sheet to the coated side of said synthetic resin sheet, and

then, curing the two-liquid polyurethane, thereby, forming a photochromic layer.

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